

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IT 03/00329

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D491/22 X31/4375 A61P35/00 A61P31/1 A61P33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 943 579 A (VISHNUVAJJALA B RAO ET AL) 24 July 1990 (1990-07-24) Abstract; claims 1-3; examples 1,2. ---	1,3,7,8, 11,12
Y	WO 01 49691 A (BALASUBRAMANIAN NEELAKANTAN; VYAS DOLATRAI (US); WALL MONROE E (US) 12 July 2001 (2001-07-12) Abstract; page 2, lines 25-26; claim 1, compounds (II), in particular definition of R7; and page 16, example 4: camptothecin-20-beta-Ala-Lys ester dihydrochloride. --- -/--	1,2,4, 6-13

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search:

13 January 2004

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30.01.2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	MATSUMOTO, H. ET AL.: "Controlled Drug Release: New Water-Soluble Prodrugs of an HIV Protease Inhibitor" BIOORG. MED. CHEM. LETT., vol. 11, 2001, pages 605-609, XP002252920 cited in the application Page 605, last paragraph; page 606, figure 1; page 607, table 1. ---	1,2,4, 6-13
X	DATABASE CROSSFIRE BEILSTEIN 'Online! Beilstein Institut zur Förderung der Chemischen Wissenschaften, Frankfurt am Main, DE; XP002252923 Database Accession Nos. 9312592, 9312810 (BRN's). & BHATT, R. ET AL.: "Synthesis and in Vivo Antitumor Activity of Poly(L-glutamic acid) Conjugates of 20(S)-Camptothecin" J. MED. CHEM., vol. 46, 2003, pages 190-193, XP002252921 Page 191, scheme 1, compounds 5c,5d; and page 192, right column first paragraph. ---	1,3
X	LERCHEN H-G ET AL: "SYNTHESIS OF 20-O-LINKED 20(S)-CAMPTOTHECIN GLYCOCONJUGATES: IMPACT OF THE SIDE CHAIN OF THE ESTER-LINKED AMINO ACID ON EPIMERIZATION DURING THE ACYLATION REACTION AND ON HYDROLYTIC STABILITY OF THE FINAL GLYCOCONJUGATES" JOURNAL FUER PRAKTISCHE CHEMIE, WILEY VCH, WEINHEIM, DE, vol. 342, no. 8, 2000, pages 753-760, XP001000978 ISSN: 1436-9966 Page 754, scheme 1, compounds 4a-f; pages 757-759, experimental part: compounds 4A,4B(L),4C(D),4D(L),4D(D),4E(D),4E(L). ---	1,3
X	DATABASE CROSSFIRE BEILSTEIN 'Online! Beilstein Institut zur Förderung der Chemischen Wissenschaften, Frankfurt am Main, DE; XP002252922 Database Accession Nos. 7563919, 7967940 (BRN's). & GREENWALD, R. B.: "Camptothecin-20-PEG Ester Transport Forms" BIOORG. MED. CHEM., vol. 6, 1998, pages 551-562, XP000985272 -----	1,3

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4943579	A	24-07-1990	NONE	
WO 0149691	A	12-07-2001	US 6288072 B1	11-09-2001
			AU 5453800 A	16-07-2001
			CA 2396030 A1	12-07-2001
			EP 1254141 A1	06-11-2002
			JP 2003519234 T	17-06-2003
			NO 20023175 A	29-08-2002
			WO 0149691 A1	12-07-2001